Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of the claims in the application.

Listing of Claims:

1. (currently amended) A coil-on-tube heat exchanger having a center tube for a first liquid flow, the heat exchanger comprising:

a plurality of ~~coil tubes~~ channels for a second liquid flow, the coil tubes helically wrapped in a parallel relationship along the length of the center tube, each of the plurality of coil tubes being in contact with the center tube and extending substantially along the same length of the center tube.

2. (original) The heat exchanger of claim 1 wherein the first liquid flow and the second liquid flow are in opposite directions, so as to provide a counter-flow heat exchanger.

3. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of coil tubes has an inlet end, the inlet ends of each of the plurality of ~~coil tubes~~ channels being co-located.

4. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of coil tubes has an outlet end, the outlet ends of each of the plurality of ~~coil tubes~~ channels being co-located.

5. (currently amended) The heat exchanger of claim 1 wherein the plurality of ~~coil tubes~~ channels extend substantially along the entire length of the center tube.

6. (currently amended) The heat exchanger of claim 1 wherein the plurality of ~~coil tubes~~ channels are arranged in a helix such that there is minimum space between each of the plurality of coil tubes.

7. (currently amended) The heat exchanger of claim 1 wherein the plurality of ~~coil tubes~~ channels forms a first helix, the heat exchanger further comprising a second plurality of ~~coil tubes~~ channels for a third liquid flow, the second plurality of ~~coil tubes~~ channels helically wrapped in a parallel relationship along the length of the center tube to form a second helix, each of the second plurality of ~~coil tubes~~ channels being in contact with the center tube and extending substantially along the same length of the center tube, the second helix extending along a different length of the center tube than the first helix.

8. (original) The heat exchanger of claim 7 wherein the first helix and the second helix extend along substantially the entire length of the center tube.

9. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of ~~coil tubes~~ channels has a substantially similar cross-sectional profile.

10. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of ~~coil tubes~~ channels has a substantially rectangular cross-sectional profile.

11. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of ~~coil tubes~~ channels has a substantially similar cross-sectional area.

12. (currently amended) The heat exchanger of claim 1 further comprising an inlet header for splitting flow to the plurality of ~~coil tubes~~ channels at an inlet end of the helix.

13. (currently amended) The heat exchanges of claim 12 wherein the header splits incoming liquid flow into a plurality of parallel flows for travel along a substantially similar path around the helix in the plurality of ~~coil tubes~~ channels.

14. (currently amended) The heat exchanger of claim 1 further comprising an outlet header for mixing flow from the plurality of ~~coil tubes~~ channels at an outlet end of the helix.

15. (currently amended) The heat exchanger of claim 1 wherein the plurality of ~~coil tubes~~ channels are wrapped in a counter-clockwise direction around the center tube.

16. (currently amended) The heat exchanger of claim 1 wherein the plurality of ~~coil tubes~~ channels are wrapped in a clockwise direction around the center tube.

17. (currently amended) The heat exchanger of claim 1 further comprising a plurality of anchors for anchoring the plurality of ~~coil tubes~~ channels to the center tube.

18. (currently amended) The heat exchanger of claim 3 further comprising a plurality of anchors for anchoring the plurality of ~~coil tubes~~ channels to the center tube at the inlet end of each of the ~~coil tubes~~ channels.

19. (currently amended) The heat exchanger of claim 4 further comprising a plurality of anchors for anchoring the plurality of ~~coil tubes~~ channels to the center tube at an outlet end of each of the ~~coil tubes~~ channels.

20. (original) The heat exchanger of claim 1 wherein the first liquid flow is a drain water flow and the second liquid flow is a fresh water flow.

21. (new) The heat exchanger of claim 1 wherein at least some of the plurality of channels are provided as a plurality of coil tubes.

22. (new) The heat exchanger of claim 1 wherein the plurality of channels are provided as a plurality of coil tubes.